

OPIC
OFFICE DE LA PROPRIÉTÉ
INTELLECTUELLE DU CANADA

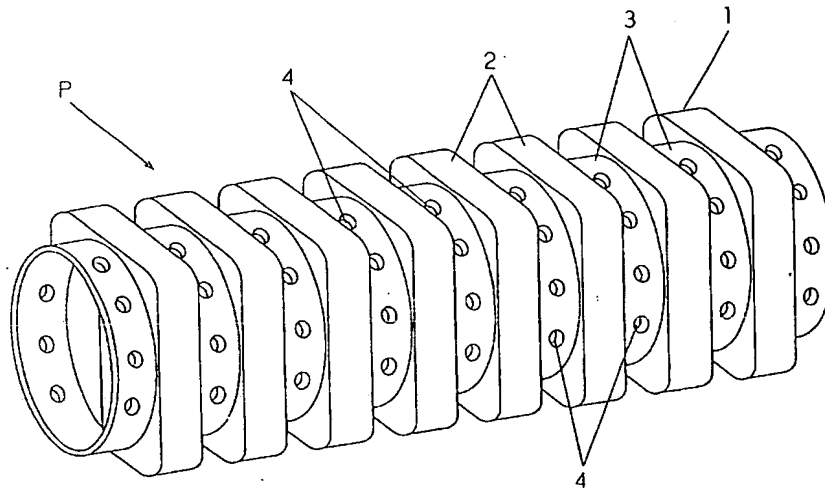


CIPO
CANADIAN INTELLECTUAL
PROPERTY OFFICE

(12)(19)(CA) **Demande-Application**

(21)(A1) **2,202,233**
(22) 1997/04/09
(43) 1997/10/10

(72) FUKUI, Kouki, JP
(72) KIKUMORI, Yasuhiro, JP
(71) TOTAKU INDUSTRIES, INC., JP
(51) Int.Cl.⁶ E03B 7/02, F16L 9/12
(30) 1996/04/10 (8-114172) JP
(54) **TUYAU DE DRAIN SOUTERRAIN**
(54) **UNDERDRAIN PIPE**



(57) Tuyau de drain souterrain ayant une paroi de tuyau dans laquelle les parties de paroi de section rectangulaire et les parties de paroi de section circulaire sont placées en alternance dans le sens longitudinal du tuyau, dans lequel plusieurs petits trous recueillant l'eau se trouvent dans les parties de la paroi du tuyau, tout le tuyau étant composé de résine synthétique ou de caoutchouc.

(57) An underdrain pipe has a pipe wall in which wall portions rectangular in section and wall portions circular in section are disposed alternately in a longitudinal direction of the pipe, in which a number of water collecting small holes are formed in portions of the pipe wall, and in which the whole of the pipe wall is formed of material of synthetic resin or rubber.



Industrie Canada Industry Canada

ABSTRACT OF THE DISCLOSURE

5 An underdrain pipe has a pipe wall in which wall portions rectangular in section and wall portions circular in section are disposed alternately in a longitudinal direction of the pipe, in which a number of water collecting small holes are formed in portions of the pipe wall, and in which the whole of the pipe wall is formed of material of synthetic resin or rubber.

WHAT IS CLAIMED IS:

1. An underdrain pipe, comprising:

5 a pipe wall including sectionally rectangular wall portions and sectionally circular wall portions disposed alternately in a longitudinal direction of said pipe; and

a number of water collecting small holes disposed in said pipe wall, the whole of said pipe wall being made of a material selected from the group consisting of synthetic resin and rubber.

10 2. An underdrain pipe as claimed in claim 1, wherein each of said sectionally rectangular wall portions has a shape of an approximate square with arcuate corners.

15 3. An underdrain pipe as claimed in claim 1, wherein an inner surface of a center portion of a flat side of each of said sectionally rectangular wall portions and an inner surface of said sectionally circular wall portions adjacent to said center portion are disposed to be in substantially one plane.

20 4. An underdrain pipe as claimed in claim 1, wherein said number of water collecting small holes are disposed in said sectionally circular wall portions of said pipe wall.

5. An underdrain pipe as claimed in claim 1, wherein said number of water collecting small holes are disposed in said sectionally rectangular wall portions of said pipe wall.

6. An underdrain pipe as claimed in claim 1, wherein

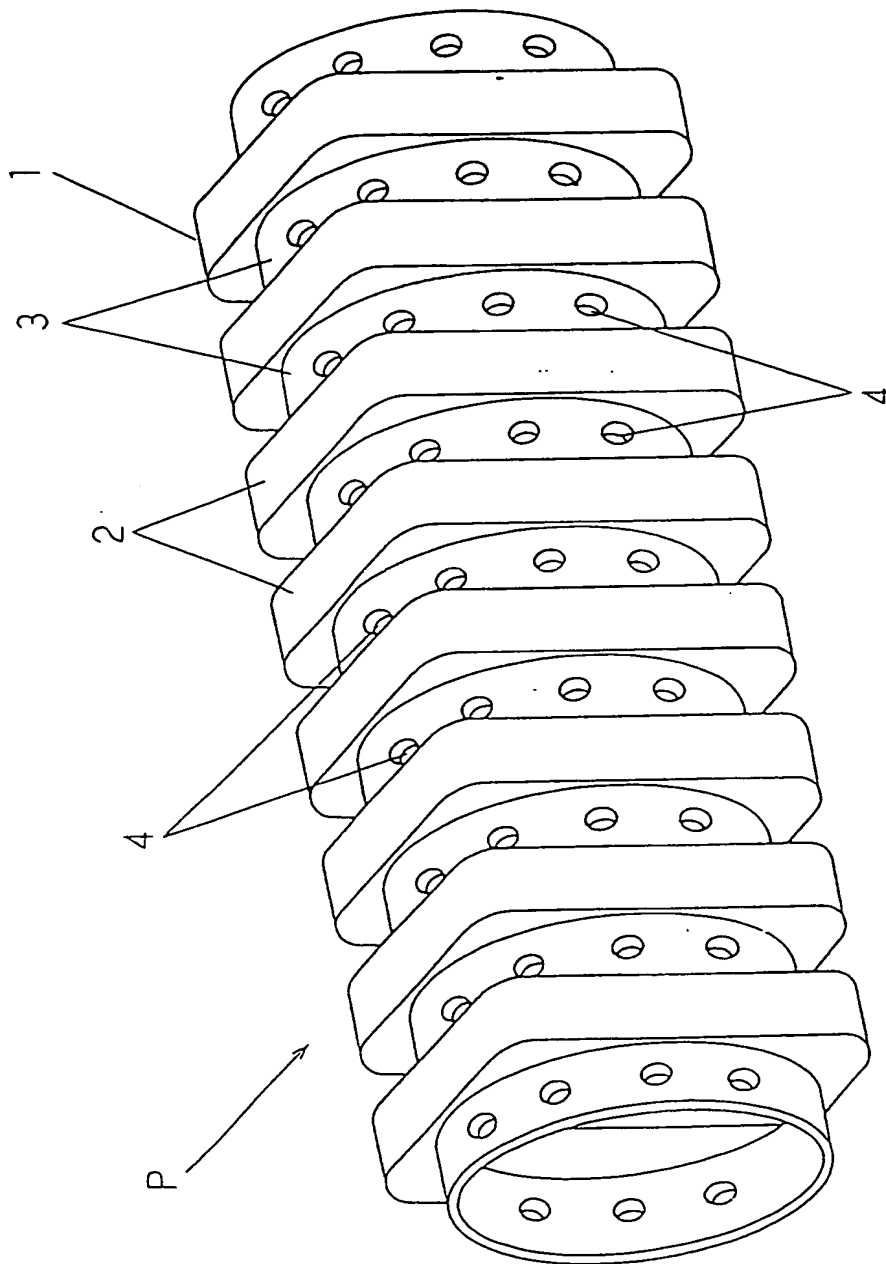
said number of water collecting small holes are disposed in said sectionally rectangular wall portions and said circular wall portions of said pipe wall.

5 7. An underdrain pipe as claimed in claim 1, wherein said number of water collecting small holes are disposed in said pipe wall except a bottom flat side of each of said sectionally rectangular wall portions and a bottom portion of each of said sectionally circular wall portions.

整理番号 81082
【書類名】 図面
~~【図】~~

1 ページ

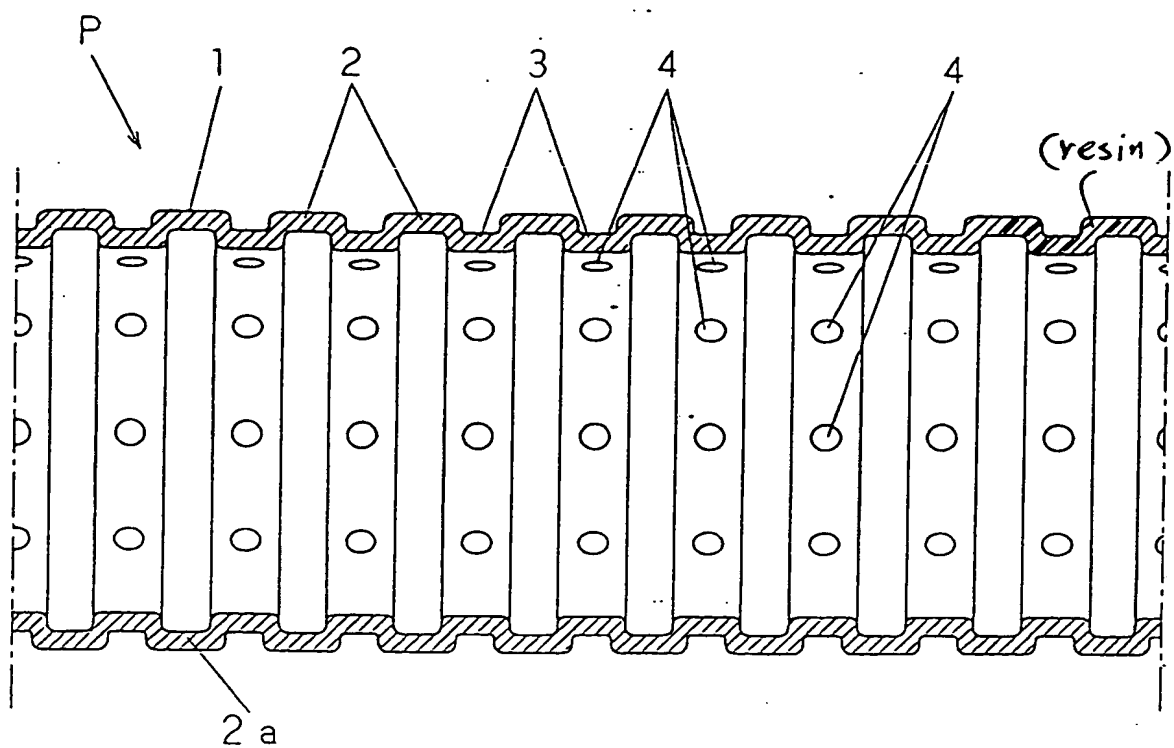
Fig. 1



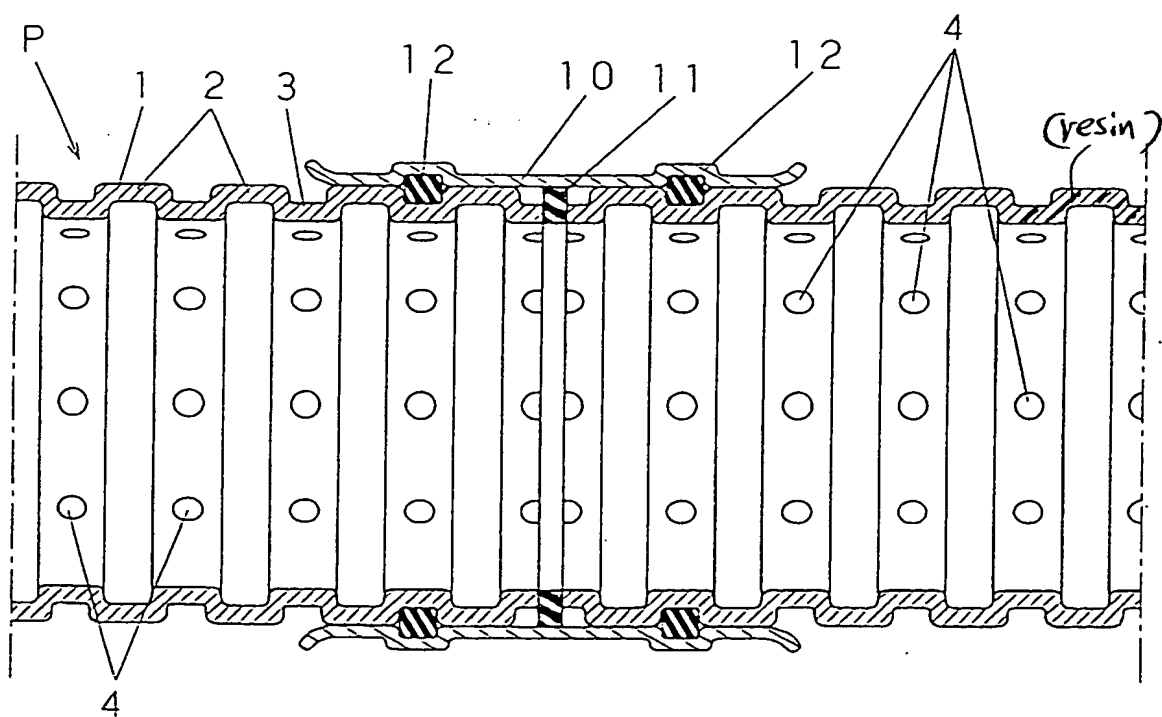
整理番号 81082

2ページ

[図2] Fig. 2



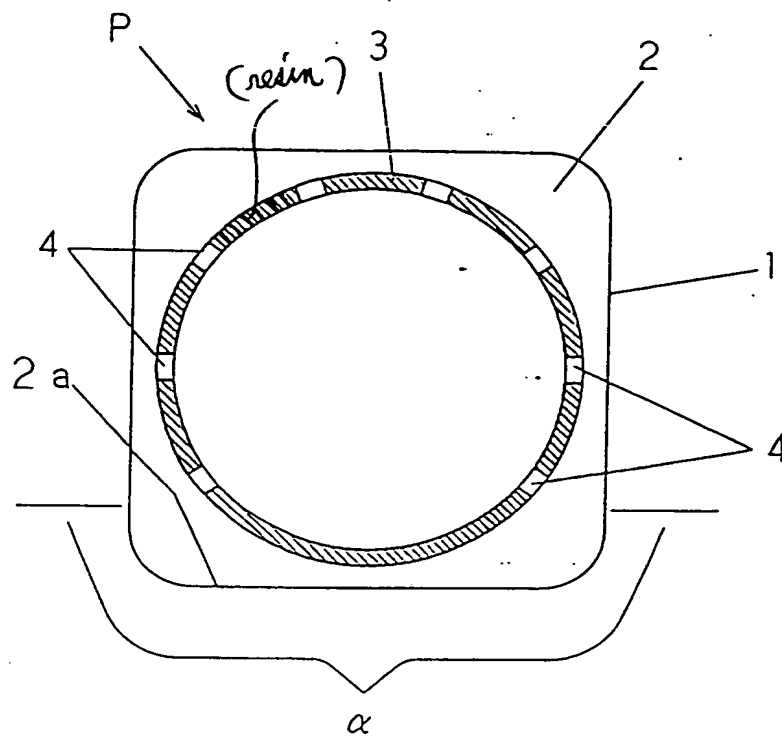
[図5] Fig. 5



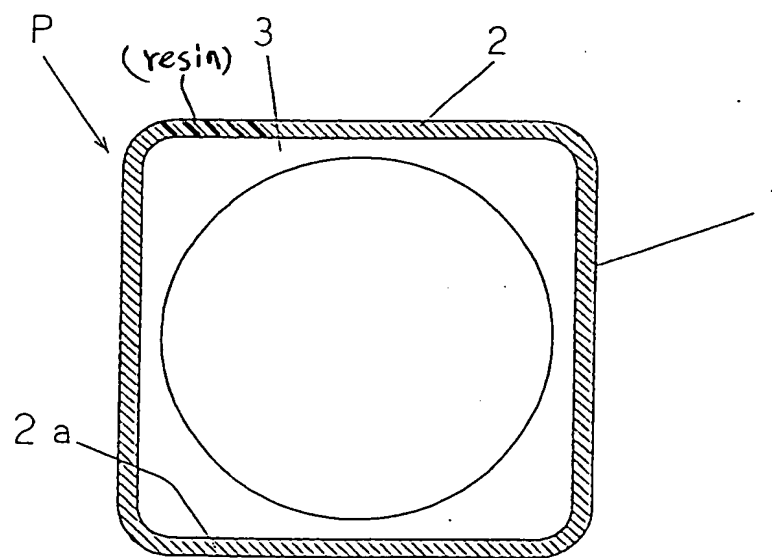
整理番号 81082

3ページ

+図3+ Fig. 3



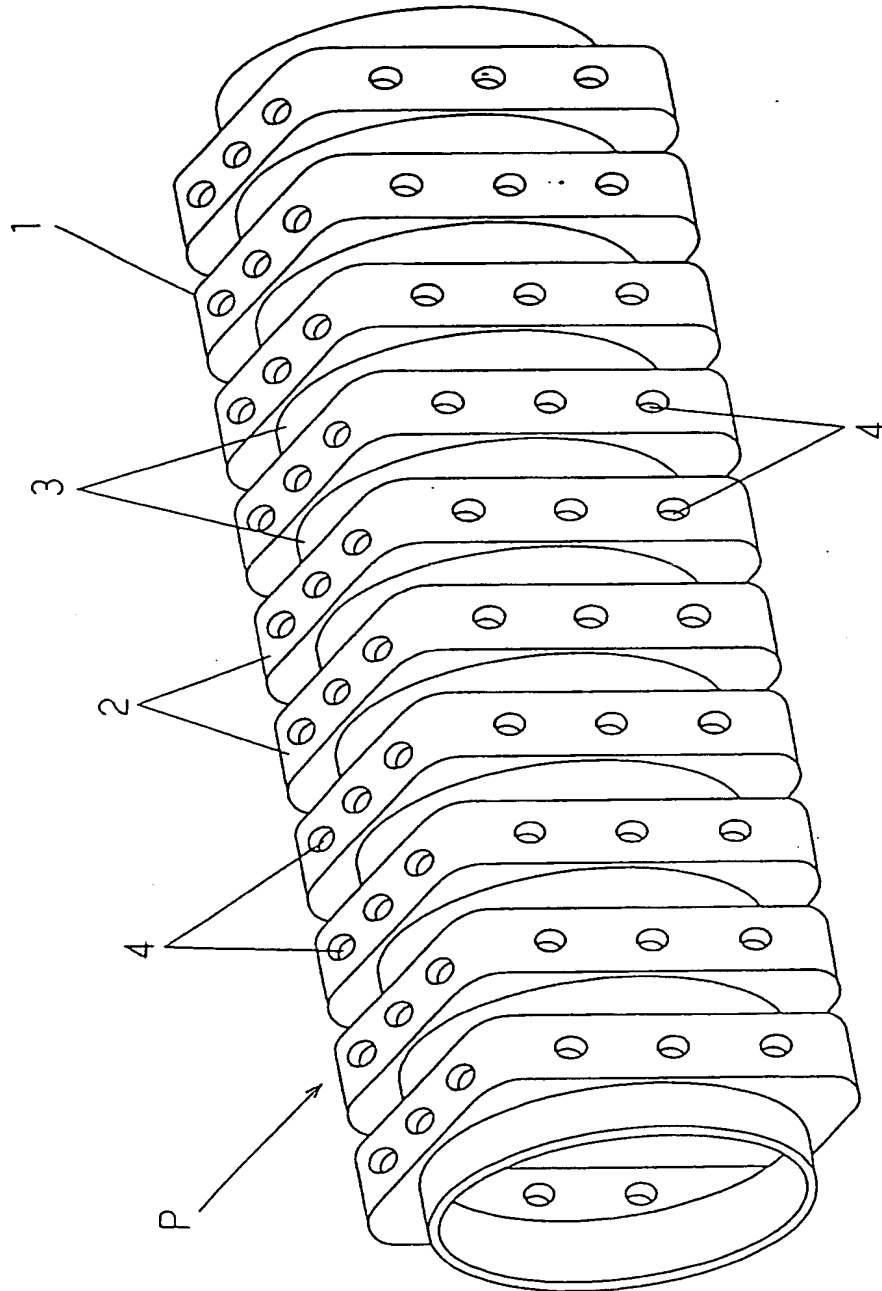
+図4+ Fig. 4



整理番号 81082

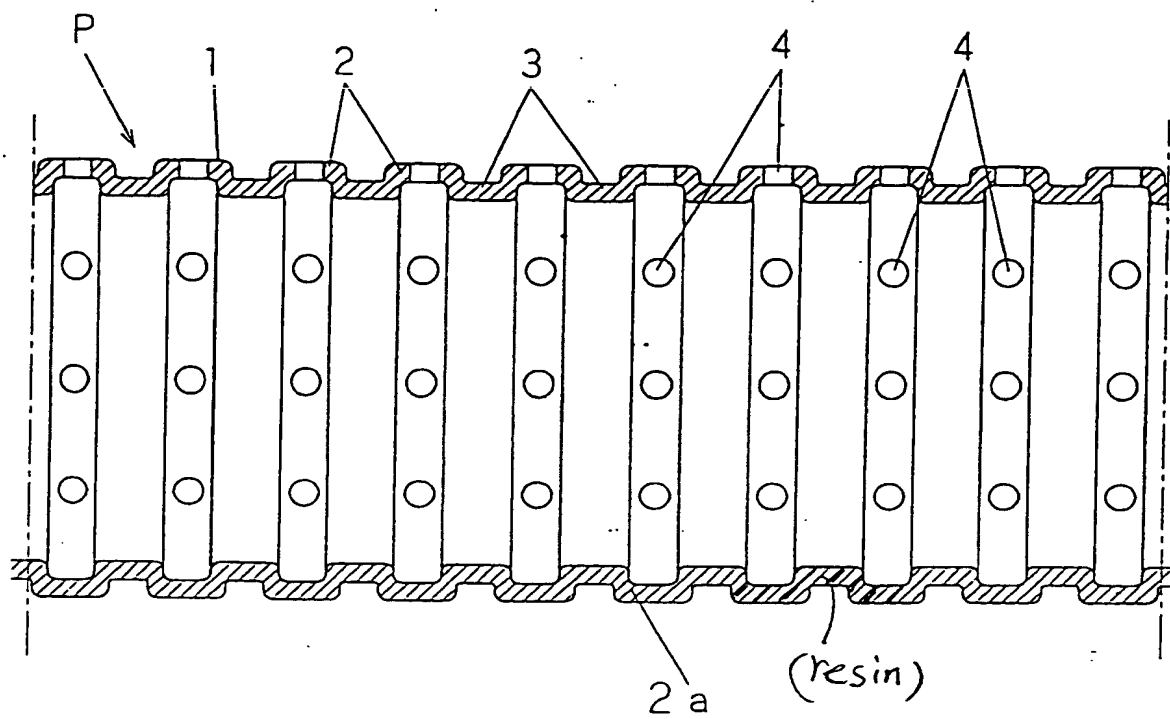
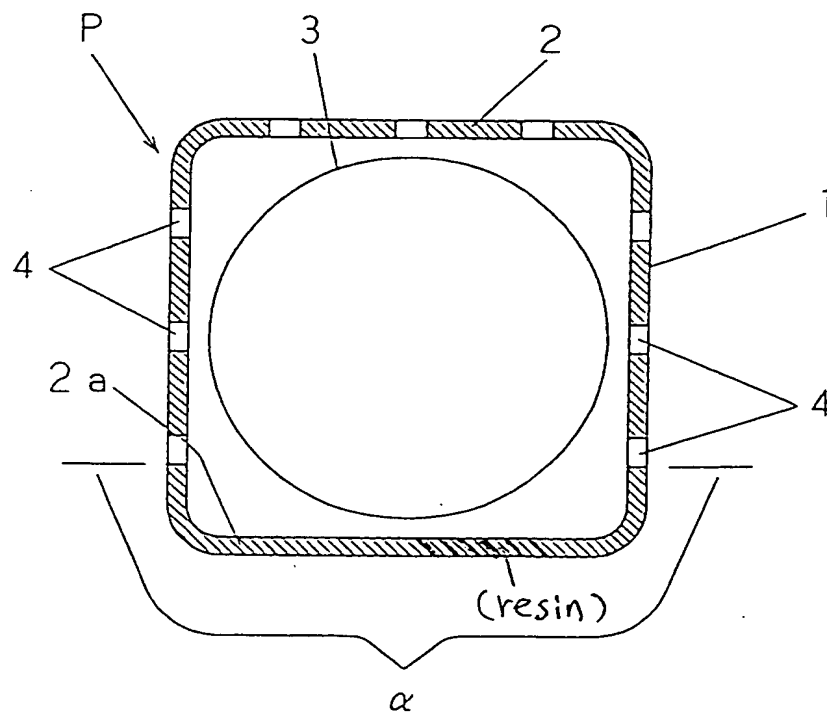
4ページ

~~1図61~~ Fig. 6



整理番号 81082

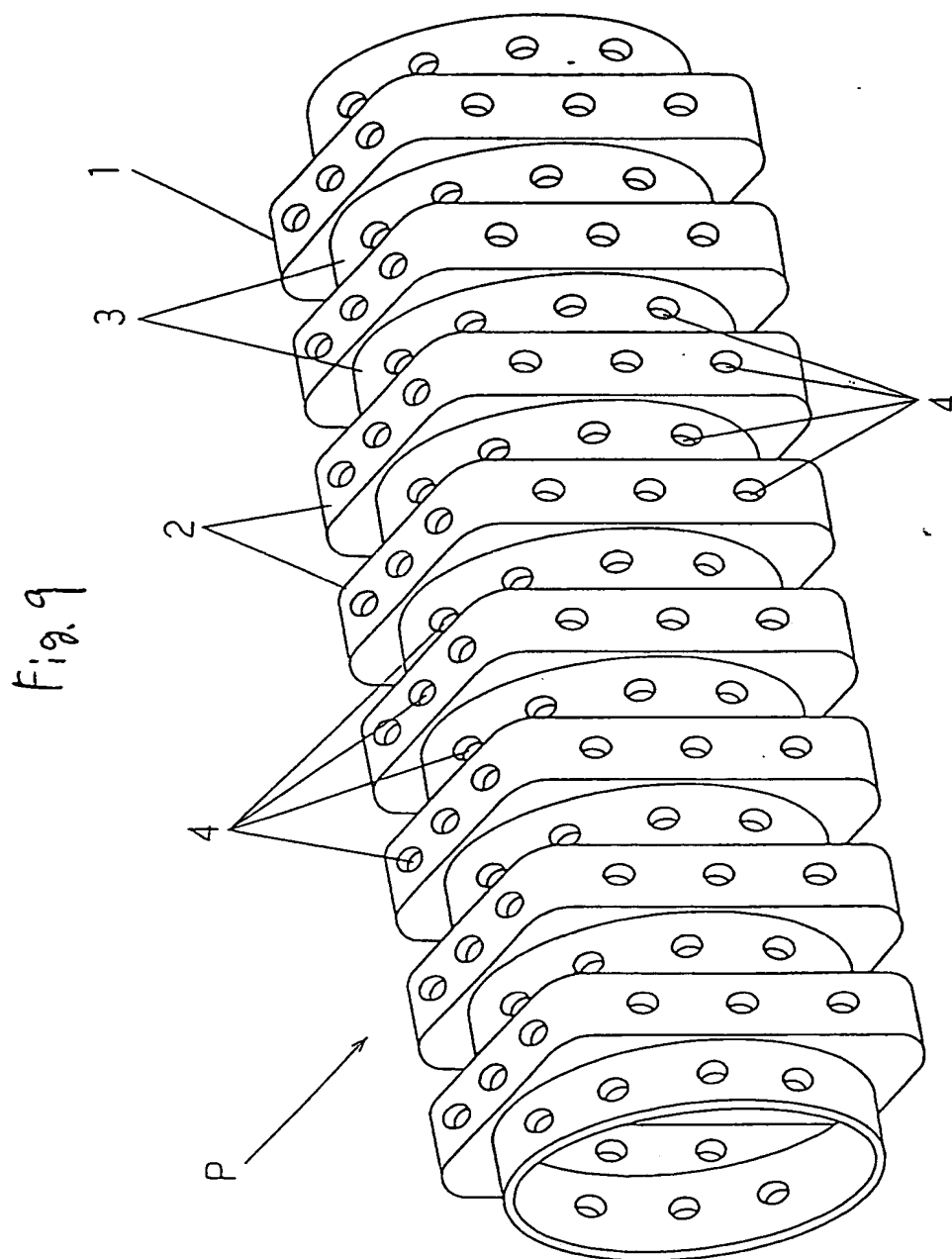
5 ページ

~~図 7~~ Fig. 7~~図 8~~ Fig. 8

整理番号 81082

1994

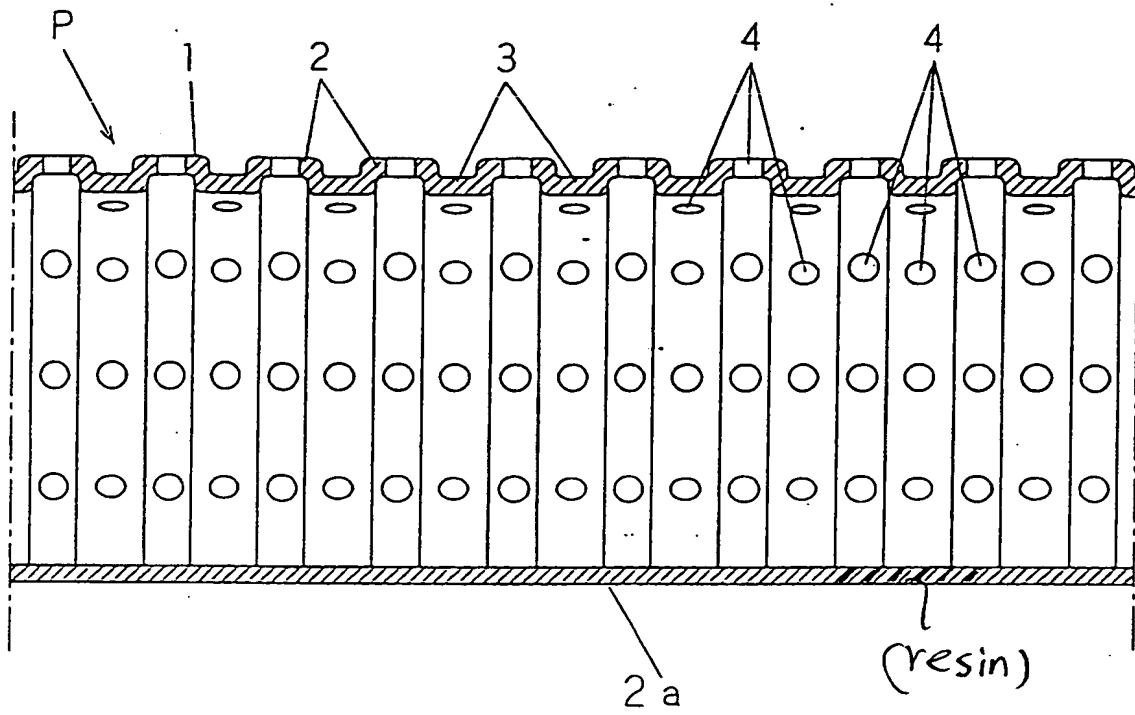
6 ページ



整理番号 81082

7ページ

[図10] Fig. 10



[図11] Fig. 11

